

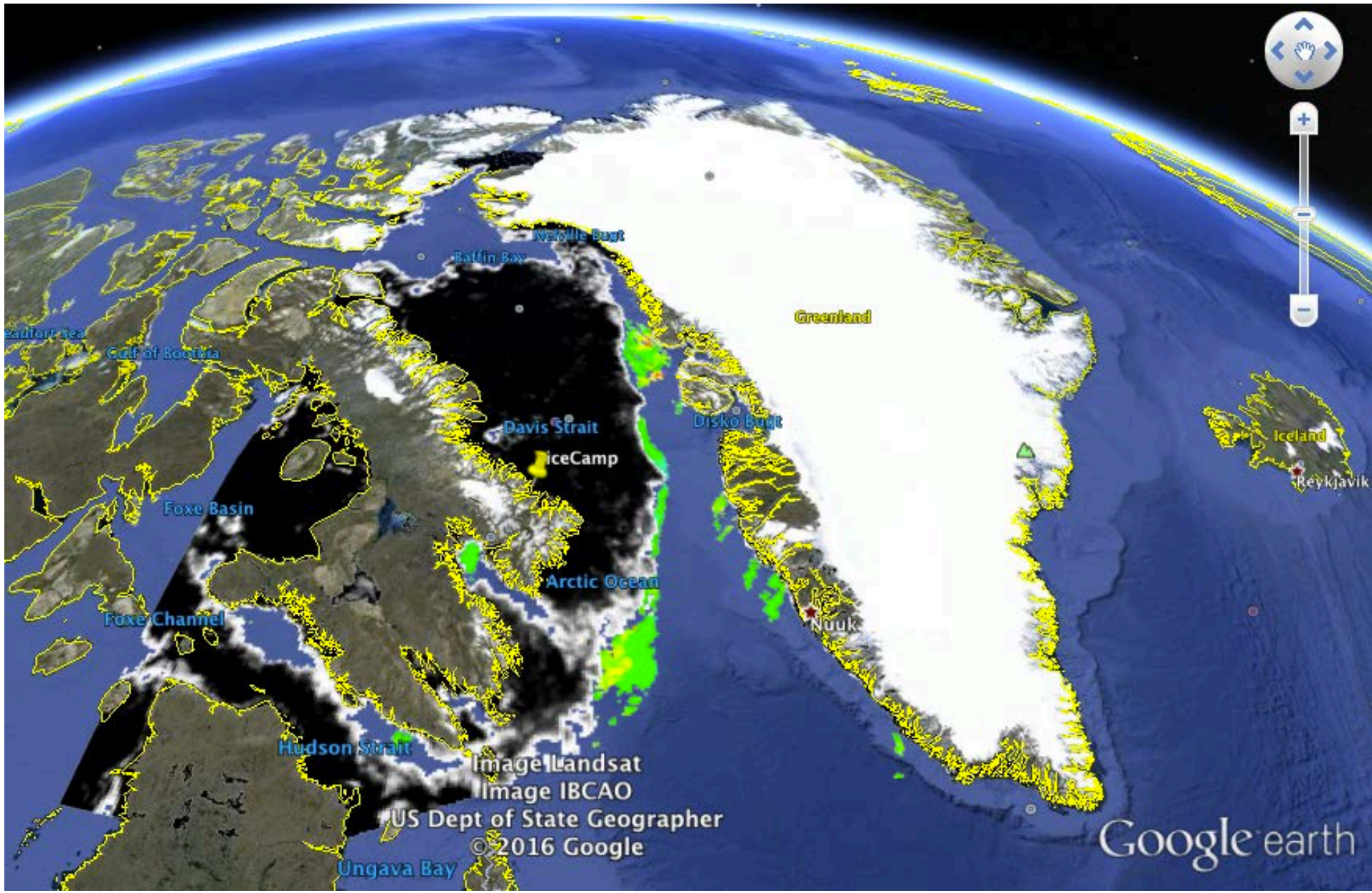
Green Edge Amundsen

# Comments

- The chlorophyll-a concentration data is computed from remote-sensing reflectances ( $R_{rs}$ ) from the visible spectrum. Therefore, no data is available when there are clouds. On the Google Earth Pro images of AMSR2 sea-ice concentration and MODIS chlorophyll-a concentration, we observe that the zone where chlorophyll-a concentration is documented changed between June 4<sup>th</sup> and June 5<sup>th</sup>. My hypothesis is the following. I suppose that clouds moved and freed different areas in Baffin Bay between these two days.

June 4<sup>th</sup>

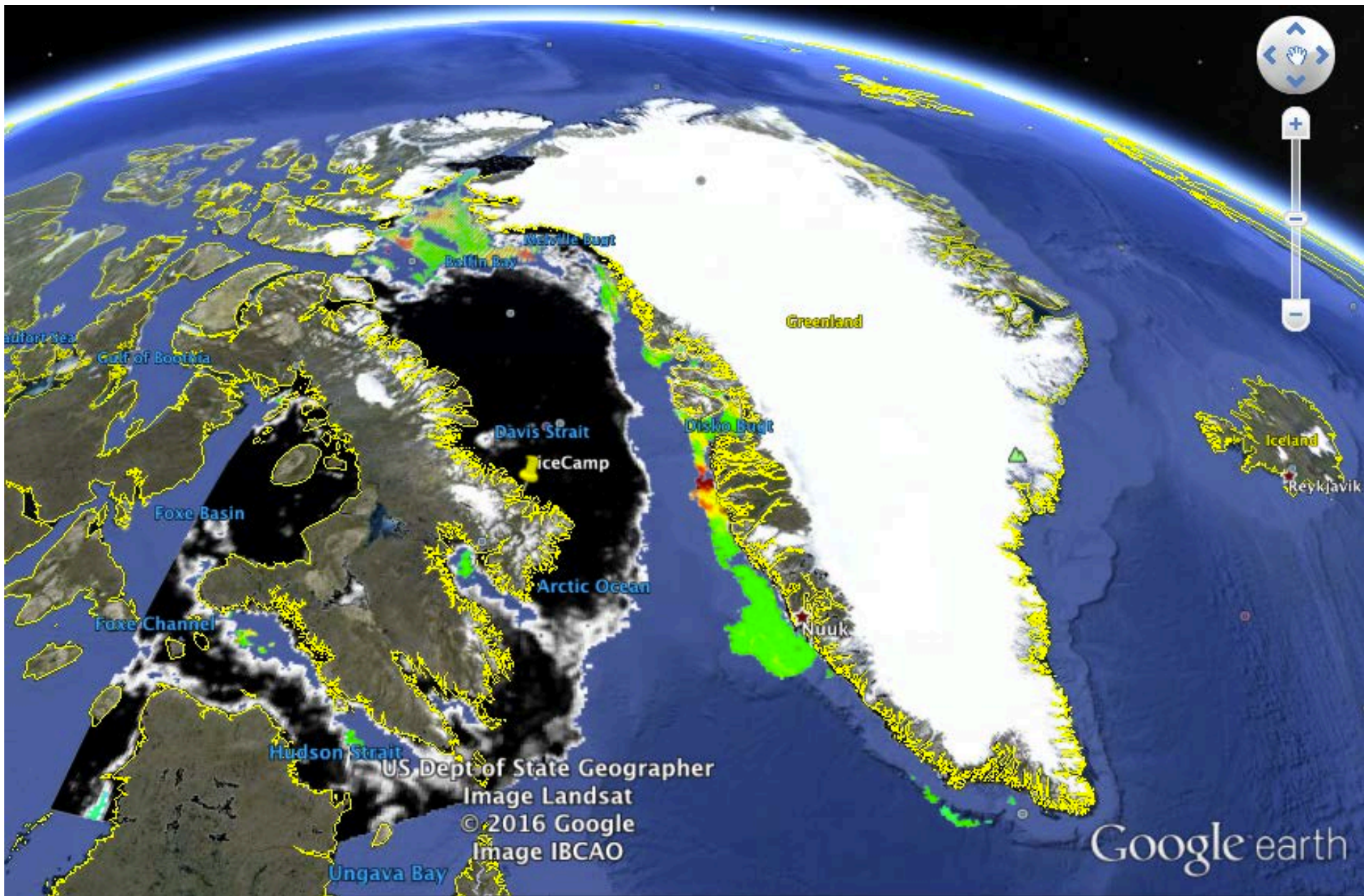
# AMSR2 sea-ice concentration and MODIS chlorophyll-a concentration





June 5<sup>th</sup>

# AMSR2 sea-ice concentration and MODIS chlorophyll-a concentration

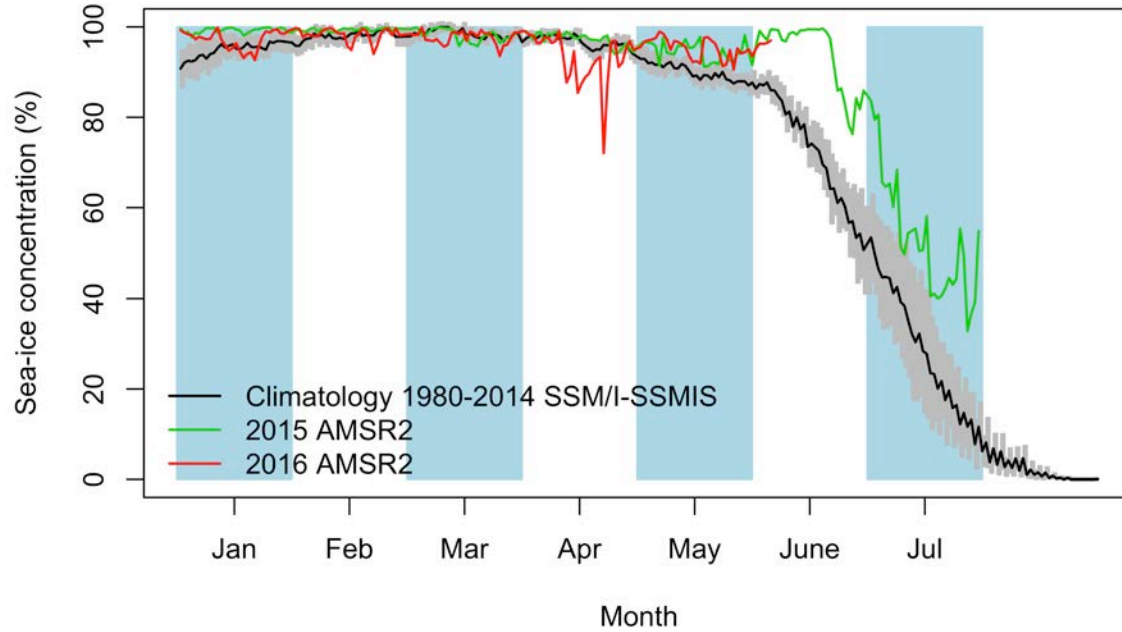


# Green Edge Ice Camp

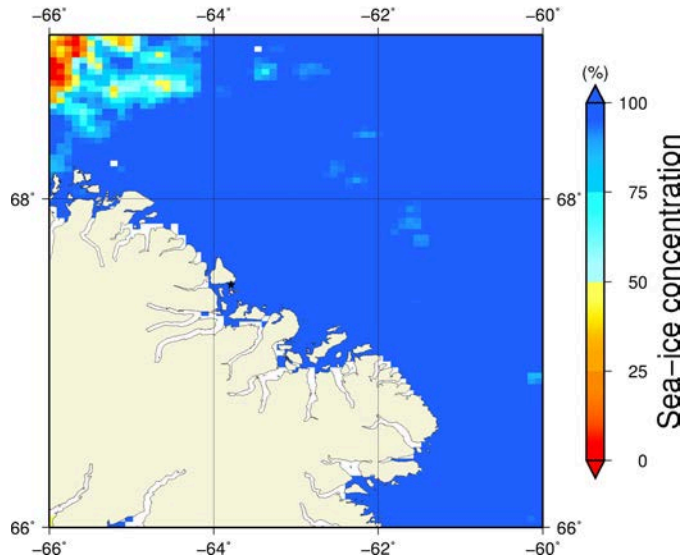
# Comments

- There is a Landsat image available for June 5<sup>th</sup>. The image is cloudy. The land-fast ice edge is outside the image but the open water area in Home Bay is inside the image. The distance between the ice camp and this area is 113.4 km. For comparison, a distance of 153.3 km was observed on the Sentinel-1 image of June 2<sup>nd</sup>. Sea ice continues to melt in this area.
- No Sentinel-1 images are available from Polar View (<http://www.polarview.aq/arctic>) for the whole Arctic for the last three days. This situation already happened two times since the beginning of May 2016. The other times, after some days, images became available again. My hypothesis is the following. I suppose there are intermittent problems with the sensor Sentinel-1 or its processing chain.

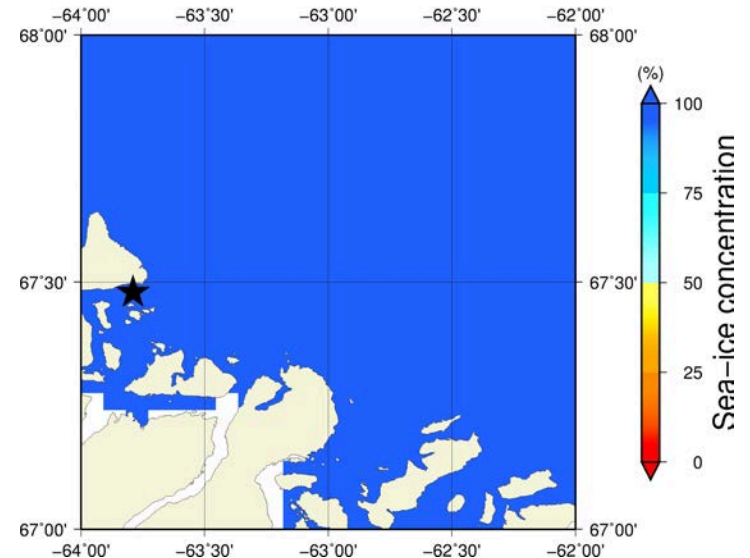
# June 5<sup>th</sup> (AMSR2) Sea-ice concentration in the region 66° to 69°N and -66° to -60°E



**Overview**



**Zoom**



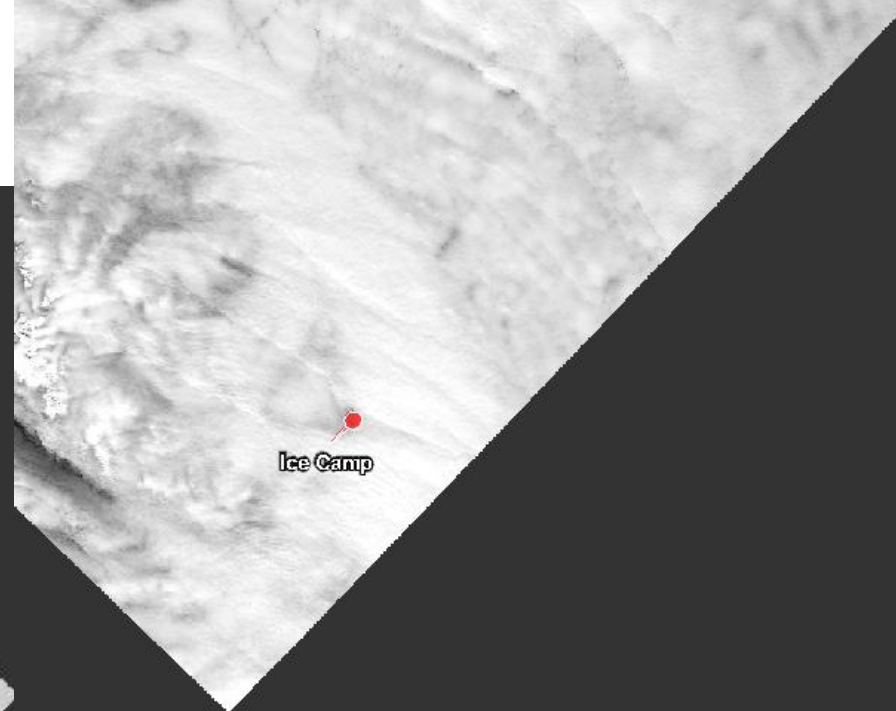
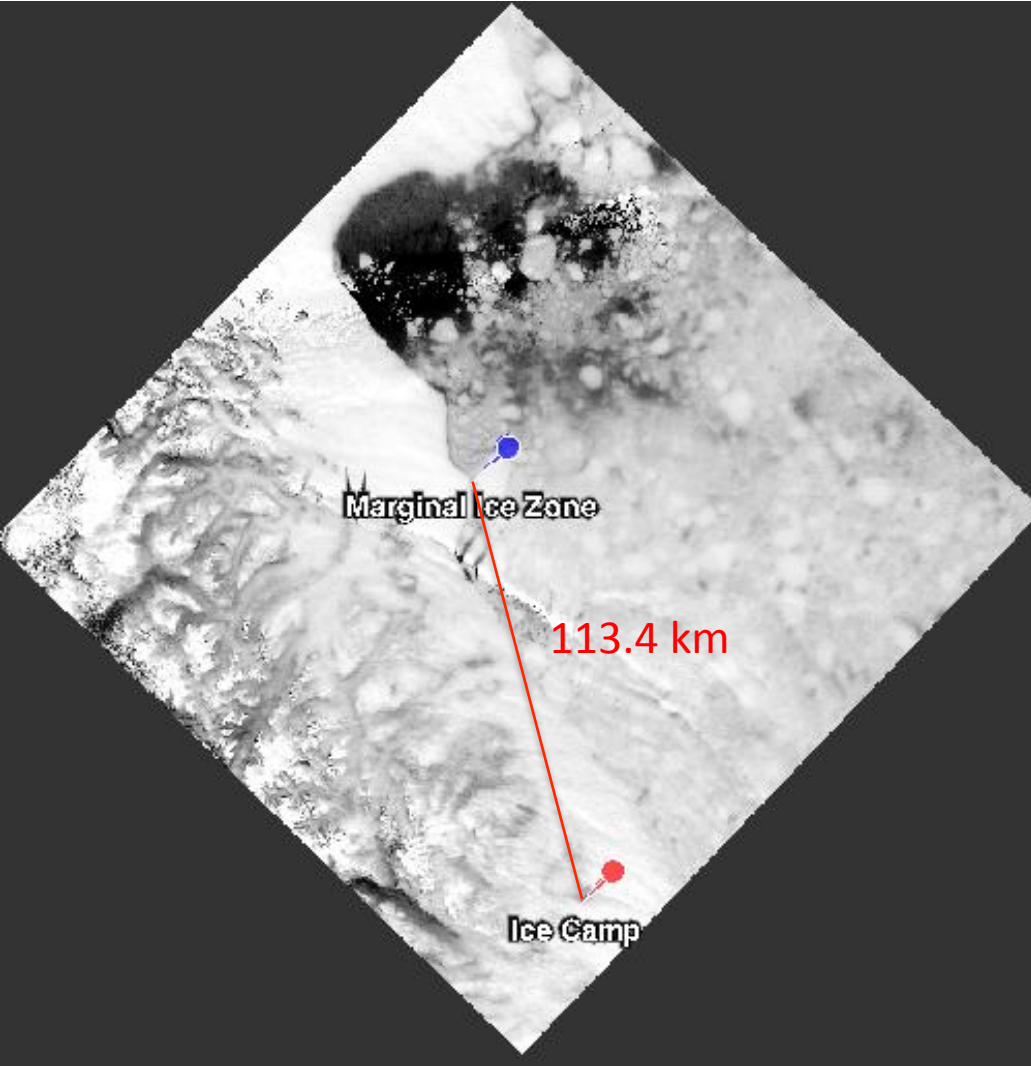


June 5<sup>th</sup> (MODIS)

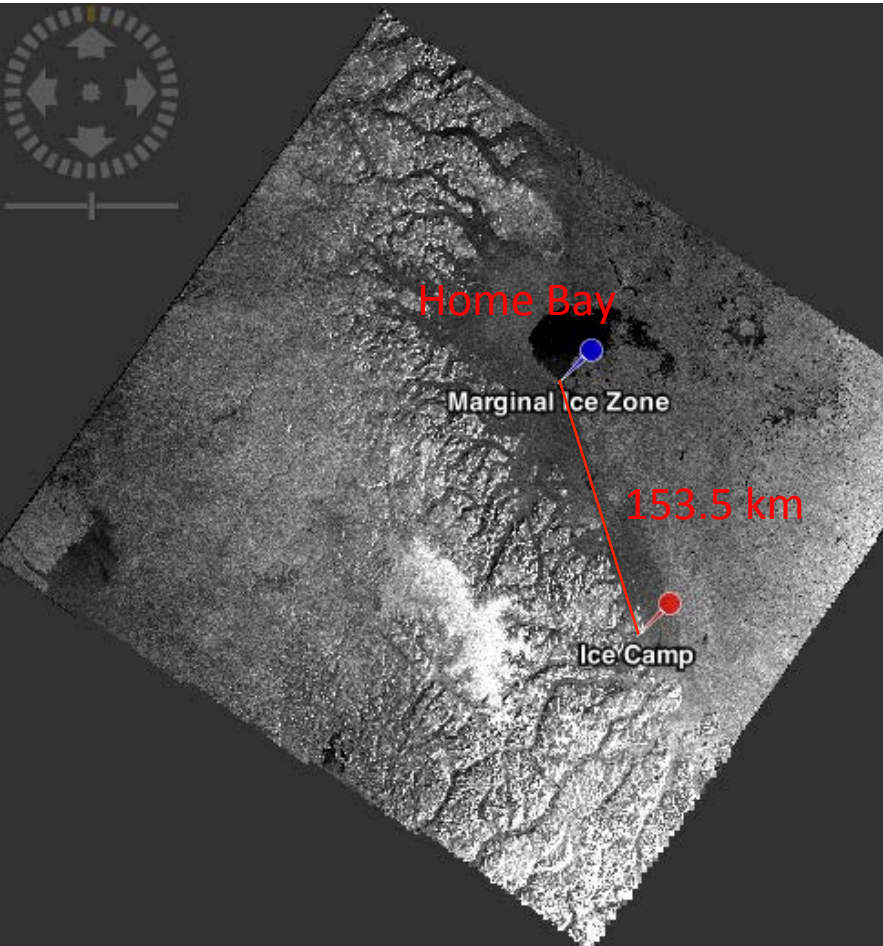




June 5<sup>th</sup> (Landsat)



June 2<sup>nd</sup> (Sentinel-1)



June 5<sup>th</sup> (Landsat)

